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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,374	09/19/2006	Junhyoung Eom	WELL.P0121US	8877
7590 01/14/2008 John W Renner Renner Otto Boisselle & Sklar 1621 Euclid Avenue Nineteenth Floor Cleveland, OH 44115			EXAMINER AYCHILLHUM, ANDARGIE M	
			ART UNIT 2841	PAPER NUMBER
			MAIL DATE 01/14/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/593,374

Applicant(s)

EOM, JUNHYOUNG

Examiner

Andargie M. Aychillhum

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/24/2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/19/2006</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Regarding to claims 1-10 are rejected under 35 U.S.C. 102 (b) as being anticipated by Maue et al. (5,478,244).

Regarding to claim1, Maue et al. discloses an integrated electronic module structure for vehicles constructed using one connector for each wire harness (**13**) structure (**14**) comprising: (See Maue et al. figures **1-2**).

a first printed circuit board (**33**) having fuses (**15**) and relay circuits (**17**) mounted thereon; (column **3**, lines **26-50**) thereon;

a second PCB (**37**) having input/output (I/O) terminals (**99 and 100**) (see figure **1**); and

a PCB (**33 and 37**) connecting unit for electrically (column **3**, lines **27-34**) the first (**33**) and second PCBs (**37**). (Column **3**, lines **43-50**). (See figures **1 and 2**) which integrates the first PCB with the I/O terminals of the second PCB.

Regarding to claim 2, Maue et al. discloses the connector comprises a multi-pole connector (**39**), and

A circuit connected between the first PCB (**33**) and the I/O terminals (**99 and 100**) of the second PCB (**37**), and a circuit connected between the second PCB (**37**) and I/O connectors (**99 and 100**) of the second PCB (**37**) are integrated in one multi-pole connector (**39**), and thus the first PCB (**33**) and the second PCB (**37**) can be constructed using one multi-pole connector (**39**) for each wire harness (**13**). (Column **3**, lines **43-50**) (See figures **1 and 2**).

Regarding to claim 3 and 7, Maue et al. discloses the first PCB (**33**) is a junction box (**11**) for vehicles. (See figure **1**).

Regarding to claim 4 and 8, Maue et al. discloses the second PCB (**37**) is an electronic control module (**19**) for vehicles. (Column **4**, lines **34-36**) (see figure **14**).

Regarding to claim 5, Maue et al. discloses the PCB (**33**) connecting unit is composed of connecting pins (**99 and 100**).

Regarding to claims 6 and 10, Maue et al. discloses the connecting pins (**99 and 100**) are directly inserted into the first PCB (**33**) and into a part corresponding to the I/O terminals (**121**) of the second PCB (**37**), then soldered, and external injection molded parts (**53**) are formed to have connectors that constitute a pair of male (**98**) and female connectors (**100**) together with the multi-pole connectors (**39**) of the wire harness (**13**). (Column 4, lines 37-59).

Regarding to claim 9, Maue et al. discloses wherein the PCB (**33**) connecting is composed of connecting pins (**99 and 100**).

Response to Arguments

Applicant's arguments filed 10/24/2007 have been fully considered but they are not persuasive.

Applicant argues that "the prior art discloses an integrated module structure disclosing the use of one connector for each wire harness'. While the general elements of fuses, relays, and PCBs are installed in the junction box of Maue, it is a unique and novel configuration of these elements that enables each harness to have a single multi-pole connector"

Examiner Disagree: because a definition of wiring harness is a system which contains switch, relay, fuse, and the correct gage wire for the intended application. Applicant's attention respectfully directed to figures **1** and **2** of Maue et al. column 3, lines **27-50**) which explained clearly that the wire harnesses has external and electrical current carrying members within an automotive electrical system.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andargie M. Aychillhum whose telephone number is (571) 270-1607. The examiner can normally be reached on (Mon-Fri from 8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gutierrez Diego can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.A.
January 4, 2008


TUAN T. DINH
PRIMARY EXAMINER
1/6/08